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OV1-2 MERGED EPHEMERIS AND
ELECTRON SPECTROMETER

65-078A-02C

OV 1-2

Electron, Proton Fluxes, Tape

65-078A-02C

This data set has been restored. There were originally 3 7-track, 800 BPI tapes written in Binary. There is one restored tape. The DR tape is a 3480 cartridge and the DS tape is 9-track, 6250 BPI. The tapes were created on a 7094 computer. The DR and DS numbers along with the corresponding D numbers and the time spans are as follows:

DR#	DS#	D#	FILES	TIME SPAN
DR03682	DS03682	DD00134	1	10/05/65 - 11/01/65
		DD00135	2	11/01/65 - 12/01/65
		DD00136	3	12/01/65 - 12/01/65

65-078A-02C
OV1-2
MERGED EPHEMERIS & ELECTRON SPECTROMETER

This data set consists of 3 BINARY, 7-track, 800BPI tapes.
These tapes were created by merging 79 Electron Spectrometer
(65-078A-02A) and 6 Ephemeris* (65-078A-00D) tapes. The 3
output tapes contain one file each with 32 word logical records
and 30 logical records per physical record. These tapes
were generated on the IBM 7094 Computer.

The Electron Spectrometer tapes are 556 BPI, 7-track,
BCD with a record length of 132 characters.

The time spans for the 3 merged tapes are:

D#	C#	TIME	SPAN
D-00134	C-03426	10/05/65	- 11/01/65
D-00135	C-03427	11/01/65	- 12/01/65
D-00136	C-03428	12/01/65	- 12/01/65

* See Data Set Catalog #104 for description of these tapes.

SOFTWARE SUBTASK DEFINITION

DATE: 1/2/70	REFERENCE NUMBERS:	GROUP: 02
SUBTASK NUMBER: 30-1	PREPARED BY: M. Redgrave	APPROVED BY:
SUBTASK NAME: OV 1 and 2 Merge Channel 15 and 16		
ASSIGNED PERSONNEL: J. Chase		

SUMMARY/REMARKS:

Develop a program to merge channel 15, channel 16, and Ephemeris data.

Channels 15 and 16 are now separate because of the telemetry transmission methods used by the satellite. Merging the two channels will essentially double the number of data points for each detector for each two-second data transmission cycle. Therefore, it is more meaningful to have all data points in the same period in the same logical record. Also, considerable tape storage is conserved by merging this data. ~~Seventy-eight~~^{nine} data tapes and six ephemeris tapes will be compacted to about four tapes.

MILESTONES AND SCHEDULES

NO.	DESCRIPTION	EST. COMPLETION DATES	
		PROPOSED DATE	REVISION DATE
1	Analysis, Coding, and Testing of Program	4/15/70	
2	Documentation and Implementation	4/17/70	

RESOURCE ESTIMATES:

MAN-MONTHS: PROGRAMMER: 0.5 OTHER TECHNICAL STAFF: _____

COMPUTER TIME (HRS.): 7094 4 360/75: OTHER (SPECIFY): _____

SPECIAL MATERIALS, SUPPLIES, ETC. (SPECIFY QUANTITY AND COST): _____

(USE BACK-SIDE OF FORM IF REQUIRED)

TEMPORARY

OVI-2 CHANNEL 15 AND CHANNEL 16

DATA TAPES

The OVI-2 Channel 15 and Channel 16 data tapes are 7 track, 556 bpi, BCD tapes written by Fortran IV on an IBM 7094 Computer. The record length is 132 characters.

Channel 15

The first two records of each orbit contain identification information including the orbit number, year, channel number, month and day. The third record contains labels for the following data (see enclosed listing). This record is repeated approximately every 44 records such that when listed by an IBM 1401 or equivalent computer on standard 11 X 15 inch computer paper the labels appear at the top of the page. The time is given as XXX.YY.ZZ.MM.M where the X's represent the day of the year, the Y's the hours, and Z's the minutes after the hour and the M's the seconds and tenths of seconds.

The Channel 15 data includes:

Abbreviation	Description
✓ ES-3	Electron spectrometer Channel 3
✗ ✓ ES-6	Electron spectrometer Channel 6
✓ DELE 1	E1 output (ΔE_1) } proton count (10K-23 MEV)
✓ DELE 2	E2 output (ΔE_2) } proton count (22 to 50 MEV)
PS-9	Proton spectrometer Channel 9 proton count
PS 1 thru PS-4	Proton spectrometer Channel 1 -
	→ → → Channel 4
DOS 1 thru DOS 3	Proton Dosimetry 1-3
ES-9	electron spectrometer ch 9 (electron count) electron count (≥ 560 kev) ES9-3

OV1-2 CHANNEL 15 AND CHANNEL 16

DATA TAPES

(continued)

Channel 16

The Channel 16 tapes are written in the same format as the Channel 15 tapes.

The Channel 16 data includes:

Abbreviation	Description
ES-1, ES-2	Electron spectrometer Channel 1, Channel 2
ES-4, ES-5	Electron spectrometer Channel 4, Channel 5
ES-7, ES-8	Electron spectrometer Channel 7, Channel 8
PS-6-thru PS-8	Proton spectrometer Channel 5 - Channel 8
ES-9	Electron spectrometer Channel 9
XRAY	XRAY output
DELE 1	E1 output
DELE 2	E2 output
PS-9	Proton spectrometer Channel 9
DOS-1--DOS-3	Proton dosimeter 1-3

OV1-2 Tapes

National Space Science Data Center

No.	Name	Orbit
1	JC10	0, 1, 5
2	"	5, 6, 7
3	"	7, 8, 17
4	"	17, 19, 21
5	"	21, 28, 30
6	"	30, 32, 42
7	"	42, 44, 73
8	"	73, 75, 76
9	"	76, 88, 89, 99, 100
10	"	100, 111, 112, 118
11	"	118, 150
12	"	150, 163, 165
13	"	165, 173, 175
14	"	175, 185, 196
15	"	196, 266, 267
16	"	267, 278
17	"	278, 279, 312
18	"	312, 323
19	"	323, 334
20	"	334, 358
21	"	392
22	"	392, 404
23	"	404, 415, 417
24	"	417, 439
25	"	439, 472, 484
26	"	484, 485
27	"	485, 506, 507
28	"	507, 532, 553
29	"	553, 569
30	"	569, 575
31	"	575, 577
32	"	577, 598, 600
33	"	600, 633
34	"	633, 635
35	"	635, 644, 646
36	"	646, 656, 658
37	"	658, 266
38	"	266, 32
39	"	73, 75, 88, 89
40	"	89, 99, 111, 266
41	"	266, 323, 334
42	"	334, 358, 506
43	"	506, 633, 635, 646,
44	"	658, 575 575

OV1-2 Tapes

National Space Science Data Center

No.		Name		Orbit
45	JC10	CH16	Output	1
46	"	"	"	2
47	"	"	"	3
48	"	"	"	4
49	"	"	"	5
50	"	"	"	6
51	"	"	"	7
52	"	"	"	8
53	"	"	"	9
54	"	"	"	10
55	"	"	"	11
56	"	"	"	12
57	"	"	"	13
58	"	"	"	14
59	"	"	"	15
60	"	"	"	16
61	"	"	"	17
62	"	"	"	18
63	"	"	"	19
64	"	"	"	20
65	"	"	"	21
66	"	"	"	22
67	"	"	"	23
68	"	"	"	24
69	"	"	"	25
70	"	"	"	26
71	"	"	"	27
72	"	"	"	28
73	"	"	"	29
74	"	"	"	30
75	"	"	"	31
76	"	"	"	32
77	"	"	"	33
78	"	"	"	34
79	"	"	"	35
80	Ephemeris Tapes		6	
81	"	"	4B	
82	"	"	5	
83	"	"	4A	
84	"	"	7	
85	"	"	3	

FINAL MERGED SVI-2 DESCRIPTION

1. If the ephemeris time interval is greater than 15 seconds or negative, that record is omitted and the ephemeris tape is read until a valid interval is found.

2. If the data record time does not correspond to a given ephemeris time interval, then zeros are moved to the output record for ephemeris data.

3. A test is made to see if data time falls within 10 seconds of any end point of a valid ephemeris interval. If it does, then extrapolation is used with ephemeris data points corresponding to end points. If the first data time is less than the first ephemeris time by more than 10 seconds, zeros are moved to that field, otherwise extrapolation is used to compute the ephemeris values. After an end of file on the ephemeris tape, all data within 10 seconds of the last ephemeris time is computed with extrapolation. All records greater than 10 seconds from the last ephemeris record have zeros for ephemeris data.

4. The last output record is zero filled if it is a short record.

Maury Materazzi - May 5, 1973

LINEAR INTERPOLATION ROUTINE FOR PVI-2

Short Description: The INTER routine will find the y_i values for a given sequence of y_i ; $i=1, \dots, 12$. The input y values are contained in two arrays A and B; the output values are stored in C, the input data time is TIME.

Lagrange's formula for the linear equation is used since we want to find many y values for one given \bar{t} value.

The equation is:

$$y = \left(\frac{\bar{t} - t_i}{t_o - t_i} \right) y_o + \left(\frac{\bar{t} - t_o}{t_o - t_i} \right) y_i$$

Margaret M. Cook - May 5, 1970

CONT. ON BACK
FORMAT FOR THE FINAL OV1-2 MERGED
EPHEMERIS AND DATA TAPES

<u>WORD #</u>	<u>DESCRIPTION</u>
1	DAY
2	HOUR
3	MINUTE
4	ES9-1
5	ES9-2
6	ES9-3
7	ES9-4
8	ES1
9	ES2
10	ES3
11	ES4
12	ES5
13	DELE1-1
14	DELE1-2
15	DELE1-3
16	DELE1-4
17	DELE2-1
18	DELE2-2
19	DELE2-3
20	DELE2-4
21	LATITUDE
22	LONGITUDE
23	ALTITUDE
24	B
25	B_r
26	B_ϕ
27	B_θ

<u>WORD #</u>	<u>DESCRIPTION</u>
28	L
29	Θ_b
30	λ
31	$X = \sqrt{1 - B_0/B}$
32	R

Each logical record of the merged tapes contains 32 words.
 There are 30 logical records per physical record. The three
 final merged tapes are 800 BPI.

Maury Materazzi - May 5, 1970

TAPES

D-00134, 00135, 00136

C- 03426, 03427, 03428

MADE FROM MERGING D-01932 → 01937 EPHemeris TAPES
 & D-01853 → 01931 ELECTRON SPECI. TAPES

FILE 0001 REC 0001 CH 5760 DAY 278

10/5/65

11/16/65

C-03426

0001	0001	CH 5760	DAY 278	10/5/65	11/16/65	DUMP OF 1ST AND LAST 10 KTC.
0049	216422540000	216457600000	214527600000	215427300000	221416240000	210714000000
0092	216024365600	216024365600	211763000000	211510000000	20561152765	21053651055
0145	17641363347	57356536134	176512657220	201541236622	210401340275	20551421117
0193	211426000000	204440000000	205344332350	2215770750000	201602436560	212474400000
0241	216544200000	215655300000	214525000000	213505000000	220634400000	201602436560
0289	201602436560	201602436560	212471000000	211633000000	20560752534	210536321475
0337	176412645626	573567213354	176512616374	201541050111	210401177066	205514336627
0385	211426000000	204440000000	205445753412	221414600000	201602436560	212423400000
0433	217545640000	216563700000	215714500000	221445270000	221744300000	201602436560
0481	201602436560	201602436560	211503000000	212550400000	2056012543	210536113017
0529	176411660005	573555670615	176512555551	201540661400	210401035676	205513263340
0577	211426000000	204440000000	205645341712	221517200000	201602436560	210744000000
0865	201602436560	204431727024	214245340000	211456000000	20556612141	210535337423
1105	1764072666332	573552254545	176512463725	20104056515715	20551310715	200515662024
1153	211426000000	204440000000	205645454276	22423310000	201602436560	212470000000
0961	211426000000	204440000000	205645454276	22423310000	201602436560	210416000000
1009	217404740000	213505000000	215755100000	213505000000	22251570000	201602436560
1057	201602436560	201602436560	207744000000	211710000000	205656106216	210535365003
1345	211426000000	204440000000	205647516402	222610450000	213535655045	2176651457610
1393	217624540000	216733000000	216552400000	215757500000	22264230000	201602436560
1441	201602436560	201602436560	212504000000	20564676351	210535037744	213537403765
1489	176405635077	573550043572	176512345337	201537666743	210400207667	205506563736
1537	211426000000	204440000000	205650137445	22275217000	201602436560	212453400000
1585	217644240000	217545640000	215661000000	215661000000	22273052000	201602436560
1633	201602436560	201602436560	212527000000	211625000000	20565413563	210534654532
1681	17640475265	573546675354	176512310640	201537521327	210400267274	20550616474
1729	211426000000	204440000000	205550560507	223443010000	201602436560	211675000000
1777	220436560000	21772770000	21745070000	21650170000	22263015000	201602436560
1825	201602436560	201602436560	211640000000	211543000000	205653303667	21053447732
1873	17640377257	573545374354	176512247211	201537343437	207774640236	205504554512
1921	201426000000	205650000000	20765151	22355026400	201602436560	211757000000
1969	220717220000	217733000000	217545640000	215702000000	22376104400	201602436560
2017	201602436560	201602436560	211631000000	211730000000	205652451674	210534243133
2065	176403017251	573544073355	176512205553	201537165547	20777332557	205503512527
2113	211426000000	204440000000	205651622613	223722630000	201602436560	212570400000
2161	22141511000	200605040000	21751010000	223634000000	205650000000	201602436560
2209	201602436560	201602436560	212435400000	212503000000	20565161770	210534036333
2257	176402037244	573542572355	176512144135	201537007657	20777702510	205502450545
2305	211426000000	204440000000	205652243655	22365343000	201602436560	211706000000
2353	220742640000	220653060000	217757240000	217526140000	22367622400	201602436560
2449	1764015236	573541271356	176512102507	20153611767	20776517421	2055013532
2497	211426000000	204440000000	205652664717	223672304000	201602436560	211703000000
2545	22147350000	22063750000	22042052000	21765374000	22372460000	201602436560
2593	201602436560	212440400000	21262000000	205650173773	21053440444	213543440440
2641	17640152300	573540071302	1765120434707	201536464707	207776231064	205504147627
2689	211426000000	204440000000	20565307651	22376550000	21263040000	212464000000
2737	221552070000	221455130000	220425720000	217624540000	201602436560	224502602000
2785	201602436560	212502400000	205647410410	210533251625	213544144056	17664337003
2833	175776534075	573536706217	176512004701	201536322320	207775745547	205477433231
2881	211426000000	204440000000	205553744542	22366364000	201602436560	211774000000
2929	221462200000	220746560000	217772200000	217501700000	223657510000	201602436560

FILE 0001 REC 0001 CH 5760
0001 21145100000 2 0474000000 204434210421 230611532400 214451400000 205463146314 214452600000 222415420000
0049 230611532400 2 0474000000 204434210421 230611532400 214451400000 205463146314 214452600000 213505000000
0002 214451400000 2 0474000000 204434210421 230611532400 214452600000 205463146314 213505000000 213505000000
0145 57645454457667 174411735353 175501552424 202427620071 205741450065 205463146723 200720517312 216424004200
0193 211461000000 2 0474000000 204435341217 213505000000 206720000000 201743656050 201743656050 213505000000
0241 213505000000 2 2360610000 227600413000 230611532400 224505536000 201602436560 230451427600 230611532400
0289 211411000000 2 1445140000 205721463146 201743656050 606436022715 20546373333 213657017040 176532734305
0337 576454115742 174411633053 175501451072 202427526151 205741450065 205463146723 200720517312 216424004200
0385 211461000000 2 0474000000 204435472015 213505000000 206024365600 204620000000 214452600000 230611532400
0433 230611532400 2 1350500000 230611532400 230611532400 213505000000 214451400000 213505000000 230611532400
0529 576453506411 174411515513 175501334621 202427412467 205742043336 206451254213 200720403304 216424050104
0577 211461000000 2 0474000000 204437622613 2254011443000 214451400000 201400000000 214452600000 230611532400
0625 230611532400 2 0140000000 230611532400 230611532400 201400000000 201400000000 214451400000 213505000000
0673 203516565007 2 0140000000 201400000000 211514000000 606435776713 205404257403 213657542316 176532343043
0721 576453077057 174411400152 175501220347 202427277005 20574236607 206451046503 200720267275 216424137567
0769 211461000000 2 0474000000 204440753412 217510100000 214451400000 201400000000 214451400000 213505000000
0817 230611532400 2 1350500000 230611532400 230611532400 201743656050 203572172702 606435663446 204771645646
0865 201602436560 2 017436560 201743656000 214452600000 606435723650 202427011076 205743635175 204771745204
0913 576452455774 174411260514 17550104743 202427162321 2057452334 20645053734 200720150222 21642212157
0961 211461000000 2 0474000000 204442226137 213505000000 214451400000 205402143452 21366265574 176531751602
1009 230611532400 2 30611532400 230611532400 230611532400 201602436560 203572172702 606435663446 204771645646
1057 214451400000 2 1445140000 204444507534 213505000000 201602436560 203572172702 606435663446 204771645646
1105 576451665174 174411103032 175500735450 202427011076 205743635175 206450337117 200720150222 216424256554
1153 211461000000 2 0474000000 204443412172 225736410000 206461463146 214452600000 2054021532600 230431532600
1201 230611532400 2 1350500000 224673662000 21575200000 230611532400 214451400000 205402143452 21366265574
1249 203740507534 2 1445140000 214452600000 214452600000 606435627246 204764356243 213662646037 176530117074
1297 576451153453 174410743116 175500603103 202426654776 205744341552 206450071065 200717633464 21642421612
1345 211461000000 2 0474000000 204444507534 213505000000 201602436560 203572172702 606435663446 204771645646
1393 213505000000 2 1350500000 213505000000 213505000000 215632000000 201602436560 230611532400 224667742000
1441 201602436560 2 017436560 201743656000 214452600000 204743656050 606435577071 204757675576 21366422640
1489 576450521013 174410620751 175500465467 202426536020 205744767643 206447652613 200717511565 215522100000
1532 211461000000 2 0474000000 204445605025 213505000000 201602436560 203572172702 606435663446 204771645646
1585 230611532400 2 30611532400 230611532400 230611532400 201743656050 203572172702 606435663446 204771645646
1633 201602436560 2 1445140000 204444507534 213505000000 201602436560 203572172702 606435663446 204771645646
1681 57645043655 174410472176 1755046763 202426411633 205745450131 206447422111 200717511565 215522100000
1729 211461000000 2 0474000000 204447057622 213505000000 206406314631 201400000000 201743656050 213505000000
1777 230611532400 2 0140000000 213505000000 220647340000 213505000000 201602436560 2040000000 230611532400
1825 214451400000 2 0140000000 201400000000 201400000000 201743656050 606435506522 204746127433 213665026375
1873 5764547373315 174410345042 175500232240 202426266707 205746125135 206447173577 200717231474 2164245661537
1921 211461000000 2 047405077113 213505000000 201602436560 214452600000 214452600000 201743656050 222441235000
1969 222561100000 2 2446054000 220733620000 213505000000 216447740000 211443000000 221724600000 226441235000
2017 205524631463 2 01602436560 214452600000 207417146314 60643546317 204740530003 213665713756 176525727361
2065 576446650473 174410203562 175500102547 202426130103 205746655141 206446717676 200717065503 216424757325
2113 211461000000 2 0474000000 204451516403 230611532400 214451400000 214452600000 201743656050 213505000000
2161 230611532400 2 230611532400 213505000000 213505000000 230611532400 201602436560 230611532400 230611532400
2209 214451400000 2 1445140000 214452600000 214452600000 606435412135 204733670317 213665512602 176525301573
2257 576446200134 174410056427 17547766024 202426005160 205747332146 206446471365 200716736113 2164245045244
2305 211461000000 2 0474000000 204452702436 222433150000 204436314631 205730000000 203706314631 213505000000
2353 213505000000 2 22514020000 213505000000 213505000000 213505000000 206531463146 222450700000 213505000000
2401 2035250507534 20472000000 20574535734 6064353536405 204733670317 213665512602 213665512602 17652472671
2449 57644560206 174407660 175477662414 202425656740 20574764014 206446255234 200716613755 216425126442
2497 211461000000 2 0474000000 204453711305 201400000000 205517146314 201400000000 201400000000 201400000000
2545 201400000000 2 14452540000 201400000000 201400000000 201400000000 201400000000 223663430000 201400000000
2593 201400000000 2 22514020000 213505000000 213505000000 213505000000 206435326766 204733641354 2136657714374
2641 576445217463 17440764035 175477573624 202425566507 20575033706 20644607521 200716507257 216425177135
2689 211461000000 2 0474000000 204454733412 213505000000 210500000000 20546314631 205511463146 213624000000
2737 213505000000 2 22513010000 217544200000 215712100000 207564000000 213505000000 213505000000 213505000000
2785 207614000000 2 07464631463 205436314631 6064353277350 204720132551 213670356702 176524041001
2833 576444665740 174407540613 1754775705035 202425465740 205750712000 206445704007 200716402560 216425247627
2881 211461000000 2 0474000000 204455015516 213505000000 205404631463 205510000000 201743656050 213505000000
2929 213505000000 2 230611532400 213505000000 213505000000 213505000000 206435326766 204733641354 2136657714374

FILE 0001 REC 0001 CH 5790
0001 211517000000 205440000000 205554720155 213505000000 211504000000 210620000000 207750000000 214463400000
0049 213505000000 214471600000 213505000000 213505000000 211477000000 216772200000 214772000000
0092 211504000000 211472000000 211460000000 210626000000 20562656154 210553330570 214640564276 175702537276
0145 175440164745 57267546754 17532346300 20170124740 21040374105 20556316213 20536722006 216453200771
0193 211517000000 205440000000 20555341217 216455440000 211614000000 210756000000 211434000000 215457000000
0241 214436200000 213505000000 213505000000 213655400000 21766500000 211427000000 214424200000 216536000000
0289 210706000000 211427000000 210542000000 210616000000 20562335201 21053220077 214640644422 17570325313
0337 175437602114 572675042216 1753233045 201677743304 21040365546 205540673173 200536375016 216453206750
0385 211517000000 205440000000 20555762251 214572000000 21063000000 211474000000 210626000000 21442300090
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